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(54) AQUEOUS INK COMPOSITION CONTAINING ANTI-CURL AGENT

(57)Abstract:

PURPOSE: To obtain an aqueous ink composition which reduces or removes paper curls in plainpaper printed elements at a low cost without adversely affecting the storage stability, decap property or the print quality, which comprises an aqueous carrier medium, a colorant and an anti-curl agent.

CONSTITUTION: This composition contains (A) an aqueous carrier medium (preferably a mixture of an water-soluble organic solvent having at least two hydroxide groups such as diethylene glycol or the like and water), (B) a colorant (preferably a pigment dispersion or a dye) and (C) an anti-curl agent (preferably 1,3-diols or the like of 2,2-dimethyl-1,3-propanediol or the like). The amount of component C blended is preferably from 15 to 30 (wt.-%) against the total weight of the ink. When an organic pigment is used as component B, components A and B are preferably blended at ratios of from 84 to 99.8% and from 0.1 to 8%, respectively, against the total amount of the ink, and when a dye is used, from 80 to 99.8% and from 0.1 to 50%, respectively.